

Patent Abstracts of Japan

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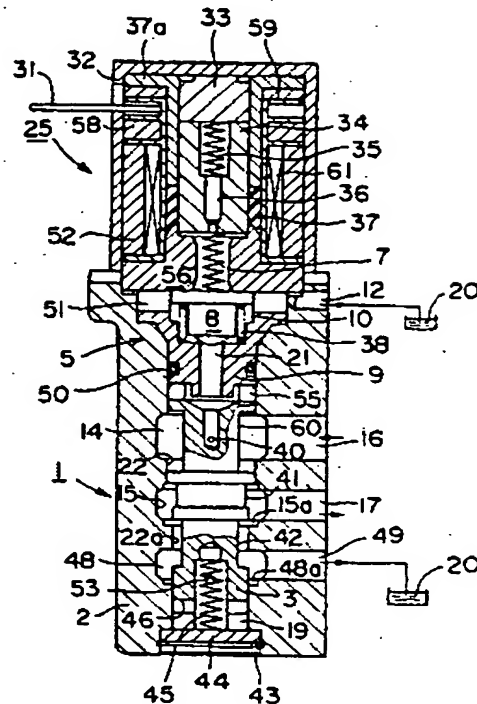
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TITLE : PRESSURE CONTROL VALVE



ABSTRACT : **PURPOSE:** To permit a secondary pressure to be controlled continuously, by applying force of a spring from a plunger to a poppet valve in accordance with exciting current of an electromagnetic actuator so that a pilot pressure acting on an end surface of a stepped spool is changed.

CONSTITUTION: Force of a spring 7 from a plunger 34 is applied to a poppet valve 8 in accordance with exciting current of an electromagnetic actuator 25, whereby the poppet valve is displaced to a position where a pilot pressure acting on an end surface of a stepped spool 3 balances with force of a return spring 45. As a result, the pilot pressure p_c changes linearly in accordance with exciting current of an electromagnetic coil 61 and a stepped spool 36 is also displaced in accordance with the pilot pressure p_c . When an amount of the displacement is large, a pressure reducing ratio decreases so that a pressure P_2 at an outlet 17 proportionally decreases.

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